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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,313	07/15/2003	Tsuyoshi Yoshizawa	FUJI:262	7951

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EXAMINER

HABERMEHL, JAMES LEE

ART UNIT PAPER NUMBER

2651

DATE MAILED: 02/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/620,313	<b>Applicant(s)</b> YOSHIZAWA ET AL.	
	<b>Examiner</b> James L Habermehl	<b>Art Unit</b> 2651	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 15 Jul 03, 6 Aug 03, and 12 Nov 03.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 and 7 is/are rejected.
- 7) ☒ Claim(s) 2-6 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 August 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>20030806</u> . | 6) <input type="checkbox"/> Other: _____  |

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1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Albrecht et al. Albrecht et al. Figures 1-3 meet all the limitations of the claims, where a substrate has a recording region (111) having a preformatted region with uneven surface structure (113) and a non-preformatted region with uniform surface structure (114), wherein ID information for uniquely identifying the magnetic disk medium is recorded in the recording region including first ID information prestored in the preformatted region (Figure 2 and 32) and second ID information stored in the non-preformatted region (36).

4. Claims 2-6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The following is a statement of reasons for the indication of allowable subject matter:

Claim 2 is allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose a magnetic disk medium comprising

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the uneven surface structure of the preformatted region include pits that are sufficiently deep in relation to the uniform surface structure of the non-preformatted region to prevent inversion of magnetization direction by a magnetic field generated by a disk drive write head, as presented in the environment of claim 2. It is noted that the closest prior art, Albrecht et al., shows forming pits similar to the claimed invention. However, Albrecht et al. fails to disclose the uneven surface structure of the preformatted region include pits that are sufficiently deep in relation to the uniform surface structure of the non-preformatted region to prevent inversion of magnetization direction by a magnetic field generated by a disk drive write head as claimed.

Claim 3 is allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose a magnetic disk medium comprising a pair of the first ID information and the second ID information are recorded on each recording surface of the magnetic disk and each pair has a different ID information, as presented in the environment of claim 3. It is noted that the closest prior art, Albrecht et al., shows recording ID information similar to the claimed invention. However, Albrecht et al. fails to disclose a pair of the first ID information and the second ID information are recorded on each recording surface of the magnetic disk and each pair has a different ID information as claimed.

Claim 4 is allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose a magnetic disk medium comprising each of the first ID information and the second ID information is encrypted in terms of a prescribed cryptosystem, as presented in the environment of claim 4. It is noted that the closest prior art, Albrecht et al., shows recording ID information using a coding scheme. However,

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Albrecht et al. fails to disclose each of the first ID information and the second ID information is encrypted in terms of a prescribed cryptosystem as claimed.

Claim 5 is allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose a magnetic disk medium comprising each of the first ID information and the second ID information includes a body of ID information that is identifying information and digital signature information for the body of ID information, as presented in the environment of claim 5. It is noted that the closest prior art, Albrecht et al., shows recording ID information using a coding scheme. However, Albrecht et al. fails to disclose each of the first ID information and the second ID information includes a body of ID information that is identifying information and digital signature information for the body of ID information as claimed.

Claim 6 is allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose a fixed magnetic disk drive mounting one or more disks that are defined by claim 1 comprising a decryption means for decrypting the first ID information and the second ID information, as presented in the environment of claim 6. It is noted that the closest prior art, Albrecht et al., shows a readout means for reading out the first ID information and the second ID information on the disk similar to the claimed invention. However, Albrecht et al. fails to disclose a decryption means for decrypting the first ID information and the second ID information as claimed.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Oshima et al. shows a magneto-optical disk medium with prerecording onto the disk

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surface in the preformatted region unique identifying information including encryption key information and recording in the non-preformatted region unique identifying information including encryption key information. Gotoh et al. shows an optical disk medium with prerecording onto the disk surface in the preformatted region unique identifying information including encryption key information and recording in the non-preformatted region unique identifying information including encryption key information. Ivers et al. Figure 3 shows prerecording onto the disk surface in the preformatted region unique identifying information including encryption key information. Thomas, III Figures 1-5 and 7 show prerecording onto the disk surface in the preformatted region unique identifying information. Ottesen et al. ('697) Figures 1-5 show magnetically recording unique onto the disk surface unique identifying information. Thomas, III et al. Figures 2C-4 show recording in a preformatted region unique identifying information including encryption key information.


6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James L. Habermehl whose telephone number is (703)305-6975. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on (703)308-4825. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Habermehl/jlh  
25 Jan 05



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